Application No.	Applicant(s)	
09/957,004	TIERLING, KOLLIN	
Examiner	Art Unit	
Nam V. Nguyen	2635	_
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
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7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
6. ☐ Interview Summary Paper No./Mail Dat B), 7. ☐ Examiner's Amenda	(PTO-413), e nent/Comment	
	Nam V. Nguyen ars on the cover sheet with the coording REMAINS) CLOSED in this apport other appropriate communication GHTS. This application is subject to and MPEP 1308. der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No uments have been received in this result in the communication to file a reply sent to a reason (s) why the oath or declarate be submitted. be submitted. on's Patent Drawing Review (PTO-state of BIOLOGICAL MATERIAL in FOR THE DEPOSIT OF BIOLOGICAL Sent of BIOLOGICAL MATERIAL in FOR THE DEPOSIT OF BIOLOGICAL Sexual Paper No./Mail Date of Interview Summary Paper No./Mail Date of Interview Summary Paper No./Mail Date of Examiner's Amending Sexual Review (Examiner's Statement).	TIERLING, KOLLIN Examiner Nam V. Nguyen 2635 Art Unit Nam V. Nguyen 2635 OR REMAINS) CLOSED in this application. If not included or other appropriate communication will be mailed in due course. THIS GHTS. This application is subject to withdrawal from issue at the initiat and MPEP 1308. der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No uments have been received in this national stage application from the of this communication to file a reply complying with the requirements ENT of this application. Ited. Note the attached EXAMINER'S AMENDMENT or NOTICE OF is reason(s) why the oath or declaration is deficient. Ited. be submitted. On's Patent Drawing Review (PTO-948) attached Amendment / Comment or in the Office action of the header according to 37 CFR 1.121(d). It of BIOLOGICAL MATERIAL must be submitted. Note the eneater according to 37 CFR 1.121(d). 5. ☐ Notice of Informal Patent Application (PTO-152) 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment 8. ☒ Examiner's Statement of Reasons for Allowance

Allowable Subject Matter

This communication is in response to applicant's amendment which is filed March 15, 2006 in the application of Tierling for a "circuit and method for a switch matrix and switch sensing" filed September 19, 2001.

The proposed amendment has been entered and made of record. Claims 2, 6, 8, 13-14, 16, 19, 21 and 28 have been amended.

Claims 1-22 and 27-29 are pending.

Applicant's amendment and argument with respect to the pending claims 1-22 and 27-29, filed March 15, 2006, are persuasive. Therefore the examiner has withdrawn the rejections.

Claims 1-22 and 27-29 are allowed.

Referring to Claims 1 and 13, the following is an examiner's statement of reasons for allowance: The prior art of record fails to disclose or suggest wherein current amplified by the transistor in a column is sensed as a logic state indicative of a switch status of a switch within the column for a selected row.

Referring to Claim 7, the following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose or suggest wherein selection of a single row by a scan line

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returns column current level from the current sensing circuit to detect if a switch at an intersection of the single row and a column of the switch matrix is closed.

Referring to Claim 19, the following is an examiner's statement of reasons for allowance: The prior art of record fails to disclose or suggest wherein the output signal includes at least the threshold level only if a scanned switch at an intersection of the selected row and a scanned column of the switch matrix is selected, wherein the scanned column is coupled to the second bidirectional scan line; and each of the other bi-directional scan lines of the plurality of bidirectional scan lines is configured to conduct a second signal associated with a second logic state opposite the first logic state.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nam V Nguyen whose telephone number is 571-272-3061. The examiner can normally be reached on Mon-Fri, 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik can be reached on 571-272-3068. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nam Nguyen May 16, 2006

PRIMARY EXAMINER